a metal leadframe, including a plurality of elongate leads arrayed around a central region thereof, each lead having an outer end extending away from the central region and an inner end extending toward the central region;

a spatulate locking pad in an outer portion of each lead adjacent to its outer end; a spatulate wire bonding pad in an inner portion of each lead adjacent to its inner end;

a land defined on a lower surface of each lead between the locking pad and the bonding pad; and,

a die pad attached to the leadframe in the central region thereof and adjacent to the inner ends of the leads, the die pad having an upper surface and a lower surface, the lower surface having a central portion and a recessed shoulder extending around the central portion.

21. (New) A leadframe for a semiconductor package, comprising:

a plurality of elongate metal leads arrayed around a central region, each lead having an outer end extending away from the central region and an inner end extending toward the central region;

a spatulate pad formed into the inner and outer ends of each lead;

a land defined on a lower surface of each lead by and between the spatulate pads formed into the inner and outer ends thereof; and,

a disposable frame connected to the leads.

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1	22.	(New)	The leadframe	of claim 21,	further of	comprising	a die pad dis	posed in
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- 2 the central region and adjacent to the inner ends of the feads, the die pad having a re-
- 3 cessed shoulder extending around a periphery of a lower surface thereof.
- 1 23. (New) A semiconductor package of a type that includes a ductile metal lead-
- 2 frame having a plurality of elongate leads radiating out from a central die pad, a semi-
- 3 conductor die mounted on the pad, a plurality of wire bonds connecting the die to the
- leads, and a protective plastic body molded over the leads, the pad, the die, and the wire
- 5 bonds, the improvement in combination therewith comprising:
- a spatulate wire bonding pad formed into an inner portion of each lead and adja-
- 7 cent to the die pad; and,
- 8 a spatulate locking pad formed into an outer portion of each lead and intersecting
- 9 with a side wall of the plastic body.
- 1 24. (New) The semiconductor package of claim 23, wherein the wire bonds are
- 2 connected to the wire bonding pads.
- 1 25. (New) The semiconductor package of claim 23, further comprising a land
- 2 defined on a lower surface of each lead by and between the spatulate pads, each land
- 3 having a lower surface exposed through a lower surface of the plastic body.
- 2 cessed shoulder formed into a periphery of a lower surface of the die pad such that a cen-

- 3 tral portion of the lower surface inside of the shoulder is exposed through a lower surface
- 4 of the plastic body.
- 1 27. (New) The semiconductor package of claim 23, wherein the leads, the die
- 2 pad, and the spatulate pads have coplanar upper surfaces.
- 1 28. (New) A semiconductor package of a type that includes a ductile metal lead-
- 2 frame having a plurality of elongate leads radiating out from a central die pad, a semi-
- 3 conductor die mounted on the pad, a plurality of wire bonds connecting the die to the
- 4 leads, and a protective plastic body molded over the leads, the pad, the die, and the wire
- 5 bonds, the improvement in combination therewith comprising:
- 6 means formed into an outer portion of each lead and intersecting with a side wall
- 7 of the plastic body for resisting penetration of moisture into the package along the lead.
- 1 29. (New) The semiconductor package of claim 28, wherein the means for re-
- 2 sisting penetration by moisture comprises a spatulate locking pad formed into an outer
- 3 portion of each lead and intersecting with a side wall of the plastic body.
- 1 30. (New) The semiconductor package of claim 28, further comprising:
- $\sim 2$  means formed into an inner portion of each lead and adjacent to the die pad for

- 31. (New) The semiconductor package of claim 30, wherein the means for in-
- creasing the wire bonding area comprises a spatulate pad formed into the inner portion of
- 3 the lead.

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- 1 32. (New) The semiconductor package of claim 28, further comprising means
- 2 formed into a lower surface of the die pad for resisting penetration of moisture into the
- 3 package along the die pad.

33. (New) The semiconductor package of claim 32, wherein the means for resisting penetration of moisture comprises a recessed shoulder formed into the lower surface of the die pad around a periphery thereof, a middle portion of the lower surface being exposed through a lower surface of the plastic body.

In accordance with 37 CFR 1.121 (c)(1)(ii), Attachment B provides marked up versions of the claims containing the newly introduced changes.

## **REMARKS**

This Preliminary Amendment is submitted before an examination of this Application to correct minor typographical errors in the Specification, and to add 13 new apparatus claims (21-33) to those previously elected (13-20) for examination following a telephonic restriction requirement made in this Application on or about 11/17/00. This Amendment adds <u>no new matter</u>.

If there are any questions regarding the above Preliminary Amendment, the Examiner is respectfully requested to contact the undersigned at (949) 718-5200.

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Respectfully submitted,

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